

AMENDED CLAIMS

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(10.27.03); original claim 1 amended (4 pages, 5 pages in the
English)]
+ Declaration

Amended patent claims:

1. A pocket knife, having at least one cutting tool which can be folded out or a blade, a side cover covering at least one side of the knife and at least three mounting spindles which hold the knife together and can lock the cutting tool in a folded-in or folded-out position, characterized in that a weighing element (13) for detecting a weight to be weighed is arranged and is mounted such that it can be folded out about at least one of the three spindles (9, 10) or at least a further spindle (11) and/or such that it can be moved during weighing.

2. The pocket knife, in particular as claimed in claim 1, characterized in that the weighing element (13) is operatively connected to a transmission arrangement (21, 21', 21'') for transmitting the weight to be weighed to a measuring sensor (23).

3. The pocket knife, in particular as claimed in one of claims 1 and 2, characterized in that the transmission arrangement (21, 21', 21'') has a lever-like element which is at least operatively connected to the weighing element (13) in order to transmit the weight to be weighed in a lever-like manner to the measuring sensor (23).

4. The pocket knife, in particular as claimed in one of claims 1 to 3, characterized in that the spindle (9, 10, 11), on which or about which the weighing element is mounted such that it can pivot or be folded, is mounted or can be moved essentially transversely to the spindle of the pocket knife within a distance.

5. The pocket knife, in particular as claimed in one of claims 1 to 4, characterized in that the measuring sensor (34) is a micromechanical sensor, such as preferably a silicon sensor, and the evaluation electronics are arranged in at least one of the side covers (6, 7).

6. The pocket knife, in particular as claimed in one of claims 1 to 5, characterized in that the weighing element (13) and the transmission arrangement (21, 21', 21'') are mounted in such a manner that there is no or little friction, such as by means of friction bearings, ball bearings and/or

flexural bearings.

7. The pocket knife, in particular as claimed in one of claims 1 to 6, characterized in that the weighing element and the transmission arrangement are mounted in a resilient manner by the transmission element being connected to a retaining element (83) via a resilient mounting spindle (81).

8. The pocket knife, in particular as claimed in one of claims 1 to 7, characterized in that a measuring arrangement is provided for detecting the angular position of the measuring element (13) based on the longitudinal axis of the knife (1), such as a Hall sensor, an optical sensor and/or a potentiometer having a resistance path and a slider.

9. A pocket knife, having at least one cutting tool or knife which can be folded out, a side cover (6, 7) covering at least one side of the knife, characterized in that the connection of a measuring sensor system for detecting the weight to be measured using evaluation electronics and display electronics, which are arranged in the at least one side cover (6, 7), is formed through a plane in the knife, on which plane are arranged tools (5, 5') which can be folded out of the knife and which leave free a passage region for the connection on this plane in the folded-in position.

10. The pocket knife as claimed in one of claims 1 to 9, characterized in that the data detected by the measuring sensor are transmitted to the microprocessor in wireless fashion, for example by arranging a coil in the measuring sensor and by transmission to the evaluation microprocessor by means of transponder transmission.

11. A pocket knife, characterized in that a weighing element (13) is provided for weighing purposes which can be pivoted out of the knife and transmits the weight to be weighed in a lever-like manner to a transmission arrangement (21, 21', 21'') remaining in the knife, and in that the transmission arrangement transmits the weight to be weighed in a lever-like manner on to a weighing cell (23), such as a micromechanical sensor, for example a silicon sensor.

12. A method for weighing a weight by means of the pocket knife as claimed in one of claims 1 to 11, characterized in that the pocket knife is rocked or moved to and fro at least twice by a person carrying out the weighing operation, as a result of which the weighing element, which is mounted such that it can move or rotate about a spindle, is moved at least twice through the 90 ° point, i.e. protruding downwards perpendicular to the longitudinal axis of the pocket knife, a

peak value for the weight to be determined being measured at least twice in each case, and these peak values, when averaged, giving the weight to be measured.

13. The method, in particular as claimed in claim 12, characterized in that evaluation electronics continuously detect the force which is set by the pocket knife moving to and fro, and, in the event of approximately similar peak values, achieved by means of electronic filtering methods, these values or their mean value is/are displayed as the weight to be weighed.

14. A method for weighing a weight by means of the pocket knife as claimed in one of claims 1 to 11, characterized in that provided in the region of the weighing element is a so-called Hall sensor, by means of which the position of the weighing element is detected, or the angular deviation when the pocket knife is not positioned exactly horizontally, and in that a value, detected by the microprocessor, for the weight suspended on the weighing element is correspondingly corrected by means of the angular deviation detected by the Hall sensor.